

PACOM GREEN INITIATIVE FOR FUELS TRANSITION (GIFTPAC)

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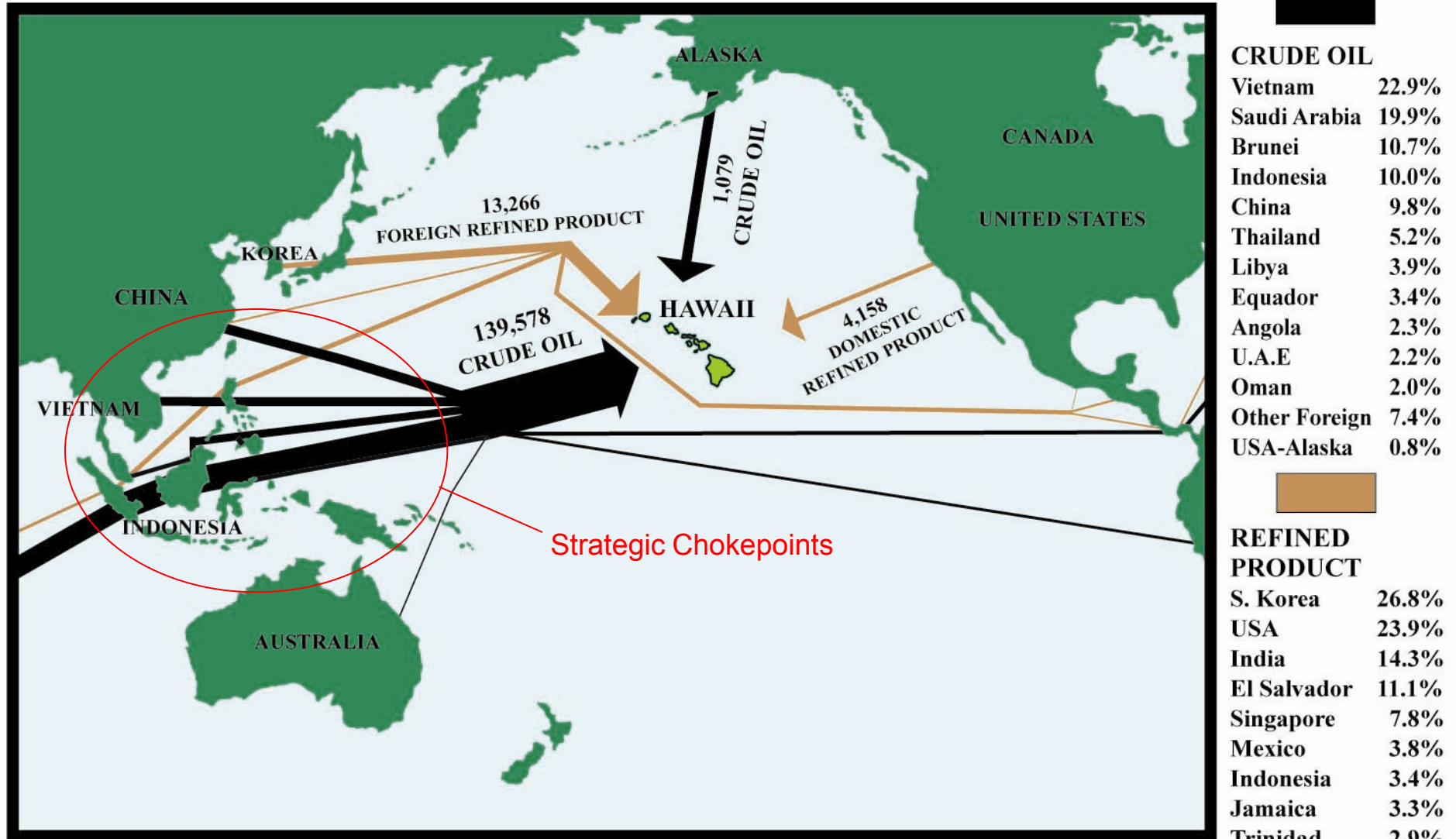
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Hawaii's Petroleum Supply Lines

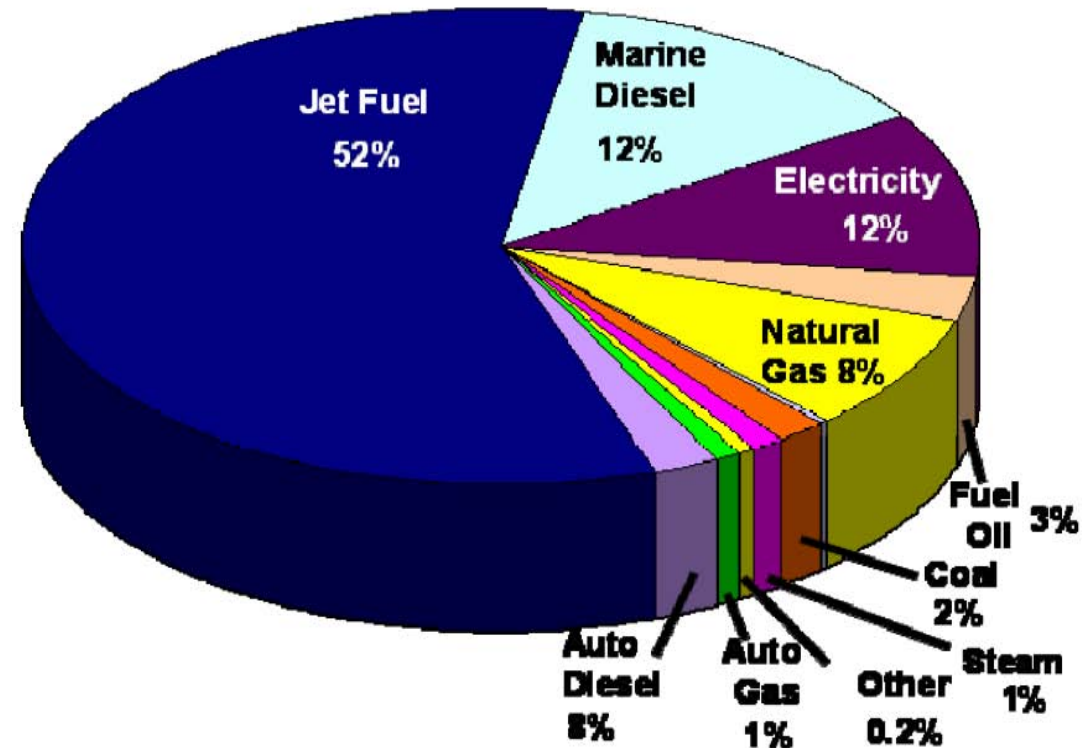


Sources: State of Hawaii Strategic Industries Division; and U.S. Energy Information Agency - 2007 (P); Preliminary-May 2007
Units are in barrels unless otherwise noted



DoD Consumption is Primarily Jet Fuel

- Comprises the majority of DoD energy use worldwide
- Makes up a large share of total energy use in PACOM's home, Hawaii
 - 5x more jet fuel use per capita than national average
- No easy replacements
 - Cannot use lower-density biofuels (ethanol, biodiesel)



Percent of FY06 Total DoD Energy Use



Initial Steps: PACOM-led Interagency Planning Group

Government-Only Working Group:

- **Mission Manager:** PACOM
- **Federal Representation:** DOD: OSD PSTF, DARPA, DESC, AFRL, AFPET, AFCE, NAVAIR, NAVFAC HAWAII, ONR, PACOM J4/JPO
USDA: RDP, ARS, NRCS
USDOE: OBP
- **Acquisition Manager:** DESC
- **Service Sponsors:** USAF Energy Office, USN Energy Office
- **Regulatory Sponsors:** Hawaii DBEDT, Dept of Ag

Listening to Industry Contributors:

- Land owners
- Farmers
- Seed/crop developers
- Engineers
- Refiners
- Ranchers
- Cellulosic converters
- Equipment suppliers
- Capital sources
- Ag processors
- Utilities
- Comm Av Alt Fuels (CAAFI)



Plan to Reduce Risk in the Enterprise Model

- Steps in the Enterprise Model**



- Participants to include**

...Landowners... Regulatory Agencies
 Technologists...Farmers... Ag Processors... Trade Groups... DESC...Services...
 ...Refiners...Distributors...

- Resources to bring to enterprise to reduce process risk**

USDA State of Hawaii Private Sector DOE DOD



Desired Outcome Set by Group

- 1) Long-term contract by DESC for multi-year stable-price supply of locally-produced green MILSPEC fuel to displace at least 25% of DoD petroleum-based supply; corresponding purchase contracts of renewable/green electricity derived from co-products of jet fuel process.
- 2) Enterprise model inclusive of the local energy market that incorporates the agricultural, energy, environmental, government, industrial, and commercial sustainability objectives.
- 3) End state with sustainable ongoing competition between multiple commercial entities in Hawaii at multiple levels.



New Methods Required

- 1) Increase in contract duration beyond 5 years**
- 2) Stable pricing techniques to ease budget planning**
- 3) Collaboration and relationships within industry**

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